



Iowa Department of Transportation

800 Lincoln Way, Ames, IA 50010

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July 30, 2009

ADDENDUM NO. 1
Iowa Department of Transportation
Specifications for
2010: Semi Trailers
Proposal: 4306
Letting Date: August 5, 2009

To All Prospective Bidders:

Specification Change:

Spec. No. 2-B660-0609, page #2 under Section 4. Running Gear "C" in now states: Axles shall be 25,000-pound (was 22,500-pound), 5/8-inch wall, 5-inch round Rockwell TQ type.

Please note corrected specifications per attached sheet.

If you have already submitted your bid and you would like to make changes, please contact Jean Gustafson at 515-239-1173.

A signed copy of this addendum is to be returned with the proposal. If you have any questions please contact the Office of Procurement and Distribution, Purchasing Section. Our phone number is 515-239-1310

Company Name

Signature

Sincerely,

A handwritten signature in blue ink, appearing to read "Jerry Giebelstein".

Jerry Giebelstein, Purchasing Agent
Office of Procurement and Distribution
Purchasing Section
Phone No. 515-239-1347 Fax: 515-239-1538

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IOWA DEPARTMENT OF TRANSPORTATION

EQUIPMENT SERVICES

SPECIFICATIONS

for

45-FOOT, SEMI VAN TRAILERS

The following specifications shall apply to the purchase of two (2) 45-foot, van type, dry freight trailers by the Iowa Department of Transportation, Iowa DOT. Trailers will be used by the Department's Central Warehouse to transport general freight and supplies to and from field Maintenance locations. A 50,000-pound GVWR tandem axle tractor will pull trailer with a 72-inch cab to axle dimension and a 48-inch \pm 1/2-inch fifth wheel height. Trailer structural parts shall be steel. Outer covering shall be aluminum. Floor shall be wood. See attached drawing on page 5.

All items to be bid differently than requested in the specifications will require the review and approval of Equipment Services before they will be accepted. See "Supplemental Terms and Conditions" under "Exceptions or Equals" in the bid package for more details. Please include all literature and technical data needed to support such a request.

Iowa DOT reserves the right to waive compliance on minor technicalities on this specification; to reject any or all bids and to accept that bid which, in the opinion of the Department, is in the best interest of the State of Iowa.

1. GENERAL REQUIREMENTS (See drawing)

- A. Trailers shall be a closed top dry freight van type with internal logistic posts.
- B. Overall length shall be 45-feet.
- C. Overall width shall be 102-inches.
- D. Overall height shall be 12-feet, 6-inches.
- E. Kingpin shall be set at 36-inches.
- F. Gross vehicle weight restriction (GVWR) shall be a minimum of 60,000-pounds and must be plated.
- G. Trailer shall conform to all applicable Federal Motor Carrier safety Regulations, Federal Motor Vehicle Regulations, ICC Regulations, National Highway Traffic Safety Administration Standards (NHTSA) and Iowa Code Section 321 requirements.

2. VAN BODY

- A. Outer side covering shall be aluminum not less than 0.050 of an inch thick.
- B. Van body shall be white in color
- C. Van's top covering shall be one (1) piece Kemlite Translucent Glasbord, 0.060 of an inch thick.
- D. Van shall have steel structural posts with vertical "A" series logistic tracks. Posts shall be on 12-inch centers and have the top logistic slot able to hold the bottom of the cargo bar a minimum of 82-inches up from the floor.
- E. Inside walls shall be completely covered with 1/4-inch plywood. Plywood shall be recessed to be flush with the posts and extend to the top of the van body.

- F. Top shall have roof cross members on maximum 24-inch centers. Two (2) strips of 1/4-inch plywood, 2-feet wide, shall be installed to run the full length of the trailer down the center of the roof. Seams between the sheet ends shall be offset by 4-feet. Plywood strips shall be evenly spaced in from the trailer sides and between the two (2) to allow maximum light penetration.
- G. Scuff liner shall be 12-inch high, 3/4-inch hardwood or 16-inch Kemlite. Scuff liner shall be installed all around the trailer interior, to include the doors.
- H. Two (2) vents shall be installed to provide fresh air to the trailer interior. One (1) shall be located on the right front of the trailer as close to the top as possible and one (1) in the left rear door up 3-feet from the bottom of the door. Air vent doors shall have screens to prevent insects and birds from entering the trailer and be weather tight when closed.
- I. Flooring shall be 1-3/8 inch laminated hardwood.
- J. Bottom (exterior) of floor shall be undercoated.
- K. Flooring screws shall be 5/16-inch diameter installed in an alternating pattern.

3. DOORS

- A. Two (2) cargo doors shall be installed into the street side of the trailer. Side doors shall be approximately 75-inches high and approximately 46 to 48-inches wide. Hinges shall be on the front edge of the doors. Front side door is to be located approximately 8-feet from the front of the trailer. Rear side door is to be approximately 25-feet from the front of the trailer.
- B. Back door type shall be two (2) sections, hinged on outside and have separate locks on each door.
- C. Bottom of all door openings shall be level with or lower than top of wood flooring, with 3/16-inch tread plate steel threshold plates extending into trailer approximately 18-inches.
- D. All doors shall be covered with 1/4-inch plywood.
- E. A ladder and minimum 30-inch long heavy-duty handgrip shall be installed by each of the side doors. Ladders shall be as wide as the doors but installed 12-inches offset to the rear or opening side of the door.

4. RUNNING GEAR

- A. Suspension shall be an air ride, Neway or approved equal, fixed at 72-inches.
- B. Axles shall have an approximate 49-inch spread.
- C. Axles shall be **25,000**-pound, 5/8-inch wall, 5-inch round Rockwell TQ type.
- D. Brakes shall be "Q" type 16-1/2 x 7 x 3/4-inch straight air type, on all wheel positions, with quick-change outboard drums.
- E. Brakes shall have Haldex automatic slack adjusters.
- F. Trailer shall be equipped with 4S/2M (4-sensors/2-modulators) anti-lock brake system.
- G. Hub piloted disc wheels and hobs with wet type oil seals, Stemco or equal, shall be supplied.
- H. Wheels shall be 22.5 x 8.25. Tires shall be 11.00R x 22.5 14-ply (LR-G) tubeless trailer radials. A complete spare tire and wheel assembly shall be provided and installed into a curbside spare tire carrier. A locking device shall be provided.
- I. Mud flaps shall be 24 x 36-inch white plastic anti-sail "Astro Turf" spray guard type with NO VENDOR LOGO.

5. FRAME

- A. Mainframe rails shall be straight.
- B. Cross members shall be constructed of 4-inch I-beams set on 12-inch centers.
- C. Heavy-duty ICC bumper. A pair of rubber dock bumpers shall be attached to the rear for structure protections. NHSA under riding safety guard type bumper to prevent vehicles from tunneling under the trailer.
- D. Outside sills and/or rub rails shall be protected from electrolysis and adequately reinforced where the door locations would tend to weaken the structure.
- E. Landing gear shall be manufacturer's standard mounted so as to accommodate a tandem axle tractor. Landing gear shall have a 2-speed dolly and 10 x 12-inch tilt type sand shoes. Landing gear shall be set back so as to accommodate the tractor's 36-inch fifth wheel slider.

6. AIR-ELECTRICAL SERVICE

- A. Air service lines shall be of heavy-duty construction, conforming to all industry standards and practices. Air service shall have standard glad-hand couplers.
- B. Electrical system will be a 12-volt. Lights shall be Truck-Lite, or approved equal, L.E.D. lamps mounted in rubber grommets. All lighting shall be in compliance with FMCS, ICC and Iowa Code Regulations. All wiring shall be supported a minimum of every 16-inches.
- C. The electrical connector shall be a 7-way, round split-pin female nose box receptacle. Receptacle shall be offset to the street side of the trailer and accept a Haldex male plug no. BE23783. All wiring circuits shall junction in a sealed circuit breaker box as an integral part of the nose box housing with appropriate circuit breakers for the lighting requirements.
- D. All plug connectors shall be liberally coated with corrosion preventative electrical grade lubricant, Truck-Lite NYK77 compound no. 97940 or equal.
- E. Reflectors shall be metal clad, 2-bolt Truck-Lite 98030R (red) and 98030Y (amber) or equal. These shall be provided in addition to any lamp lens reflectors and installed where required by FMCS regulations.
- F. Mid span turn signal lamp assemblies with directional arrow lens and warning sign (such as K-D Lamp Co. no. 747-0193) shall be installed at a midpoint under the deck edge on both sides of the trailer.
- G. Retro-reflective (conspicuity tape) meeting proposed NHTSA rules shall be provided and installed as per the Federal guidelines.
- H. There shall be two (2) dome lights equipped with 32CP bulbs (minimum) installed down the center of the van (see drawing). Two (2) 3-way, on/off switches are to be installed.
 - a. One (1) externally mounted at the front nose of the trailer, located next to the 7-pin electrical receptacle. The operator shall easily reach this switch from the left side of the trailer. Switch shall be weather tight with a red jewel indicator light
 - b. The other switch shall be mounted inside the right rear door. Switch shall be a recess mount switch.
 - c. Both switches shall operate all dome lights.

7. COMPLETENESS

- A. Trailer shall be fully serviced and ready for use upon delivery.
- B. Trailer shall be furnished with two (2) sets of complete manuals. Manuals shall include operator, service and repair information as well as an illustrated parts list.
- C. All steel and un-plated hardware shall be primed with a rust-inhibitive primer and painted with non-lead compound aluminum or gray enamel paint.
- D. Complete trailer shall be warranted for at least one (1) year. Warranty shall include all parts and labor to correct any material, workmanship or manufacturer defects. If manufacturer's standard warranty or component manufacturer's warranties are for a longer period, they shall apply. Warranty shall begin when unit is delivered to the requesting location and put into service.

8. INSPECTION

Successful vendor shall arrange with Equipment Services for an inspection of the trailer. Inspection shall be made at the contactor's headquarters, if in Iowa or at the Iowa Department of Transportation headquarters in Ames, IA.

Trailer Drawing

